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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/604.169	06/30/2003	DAVID SHIUNG	10969-US-PA	1168		
31561 HANO CHYLL	7590 03/14/2007 NINTELLECTUAL PROF	PERTY OFFICE	EXAMINER			
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100			NGO, CHUONG D			
ROOSEVELT TAIPEI, 100	ROOSEVELT ROAD, SECTION 2 TAIPEL 100		ART UNIT	PAPER NUMBER		
TAIWAN			2193			
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE		
3 MO	NTHS	03/14/2007	PAI	PER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicati	on No.	Applicant(s)					
		10/604,10	69	SHIUNG ET AL.					
	Office Action Summary	Examine		Art Unit					
		Chuong D	. Ngo	2193					
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	orrespondence address					
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH R 1.136(a). In no ev n. eriod will apply and w tatute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin iil expire SIX (6) MONTHS from lication to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status									
1) 又	Responsive to communication(s) filed on <u>0</u>)2 January 200	7						
2a)□		This action is n							
3)	, —								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 又	Claim(s) 1-21 is/are pending in the applica	tion.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
· <u> </u>	⊠ Claim(s) <u>1-21</u> is/are rejected.								
7)									
8)□	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by the Exar	niner.							
	The drawing(s) filed on 30 June 2003 is/are		ed or b) objected to	by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* 5	See the attached detailed Office action for a	list of the certi	fied copies not receive	d.					
Attachmen									
1) Notic	e of References Cited (PTO-892)		4) Interview Summary						
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/SEr No(s)/Mail Date) 3/08)	· -	ite atent Application (PTO-152)					
. upc			6)						

Application/Control Number: 10/604,169

Art Unit: 2193

DETAILED ACTION

1. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Balaban et al. (4,464,675).

Balaban et al. discloses in figures 1, 2a and 2b, a filter (20) clearly including a shift register having a plurality of register (LI,TI1-TI227) coupled in cascade controlled by a synchronization clock (IFC), and an arithmetic subtracting unit having an inverter (72) and an adder (74) for obtaining a difference between an input data stored in the output end (TI227) and the input end (LI) of the shift register to form an output of the filter as claimed. As illustrated in figure 12d, the filter clearly has a function of a band pass filter that extracts a desired frequency band (15,734/2 = 7867Hz, the frequency at the center of the of the first tooth) from an input signal, and thus the data of the input signal within the desired band. The length of the shift register (LI+TI1 to TI227 = 228) is clearly equal to the sum of 1 and an integer part (227) of a ratio (1.79MHz/7867Hz = 227.7) of a half of a signal sampling rate (IFC = 3.58 MHz, see col. 4, lines 64-65) of the input signal to a desired band pass frequency (15,734/2 Hz, see figure 12d and col. 12, lines 64-68) as claimed.

2. Applicant's arguments filed on 01/02/2007 have been fully considered but they are not persuasive because the comb filter 20 of Balaban et al. as clearly explained above have a function as a band pass filter as claimed. It should be noted that the filter of the present invention is also a comb filter with the teeth, as illustrated by figure 4 showing the first two teeth, separated by 2x1.25KHz = 25KHz.

Application/Control Number: 10/604,169

Art Unit: 2193

3. The text of those sections of Title 35, U.S. Code not included in this action can be found

Page 3

in a prior Office action.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The

examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 2193

03/07/2007